

Case Study 1
Malawi, Grade 4, Chichewa (2012)



Objective:

Set benchmarks in the following skill areas:

- Reading comprehension
- ORF
- Non-Words
- Familiar Words
- Syllable Sounds
- Letter Names
- Listening Comprehension

Desired Outcomes- Grade 4 Benchmarks by Subtask:

Subtask	Benchmark
Reading Comprehension (% correct)	
ORF (cwpm)	
Non-Words (cnonwpm)	
Familiar Words (cwpm)	
Syllable Sounds (csspm)	
Letter Names (clpm)	
Listening Comprehension (% correct)	

Case Study 1
 Malawi, Grade 4, Chichewa (2012)

Box Plots- ORF by Reading Comprehension:

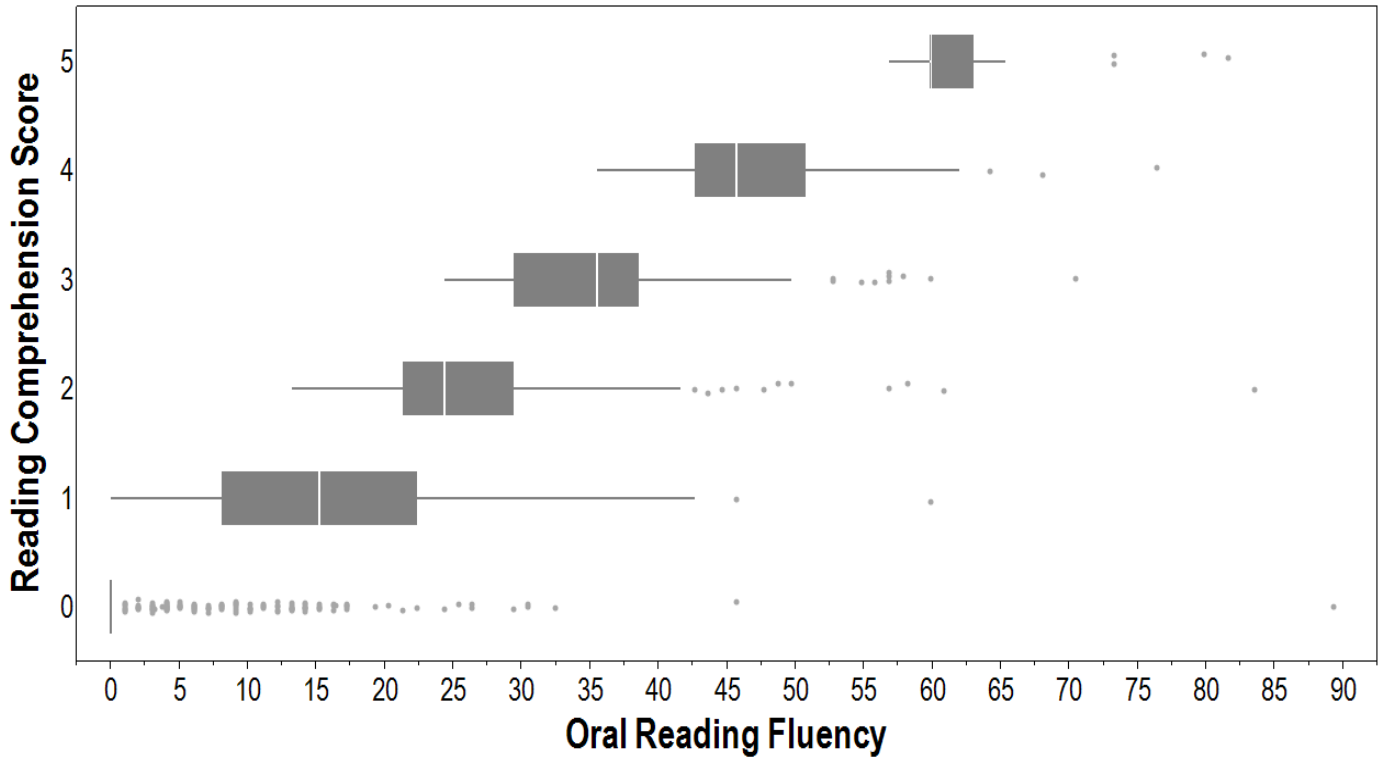
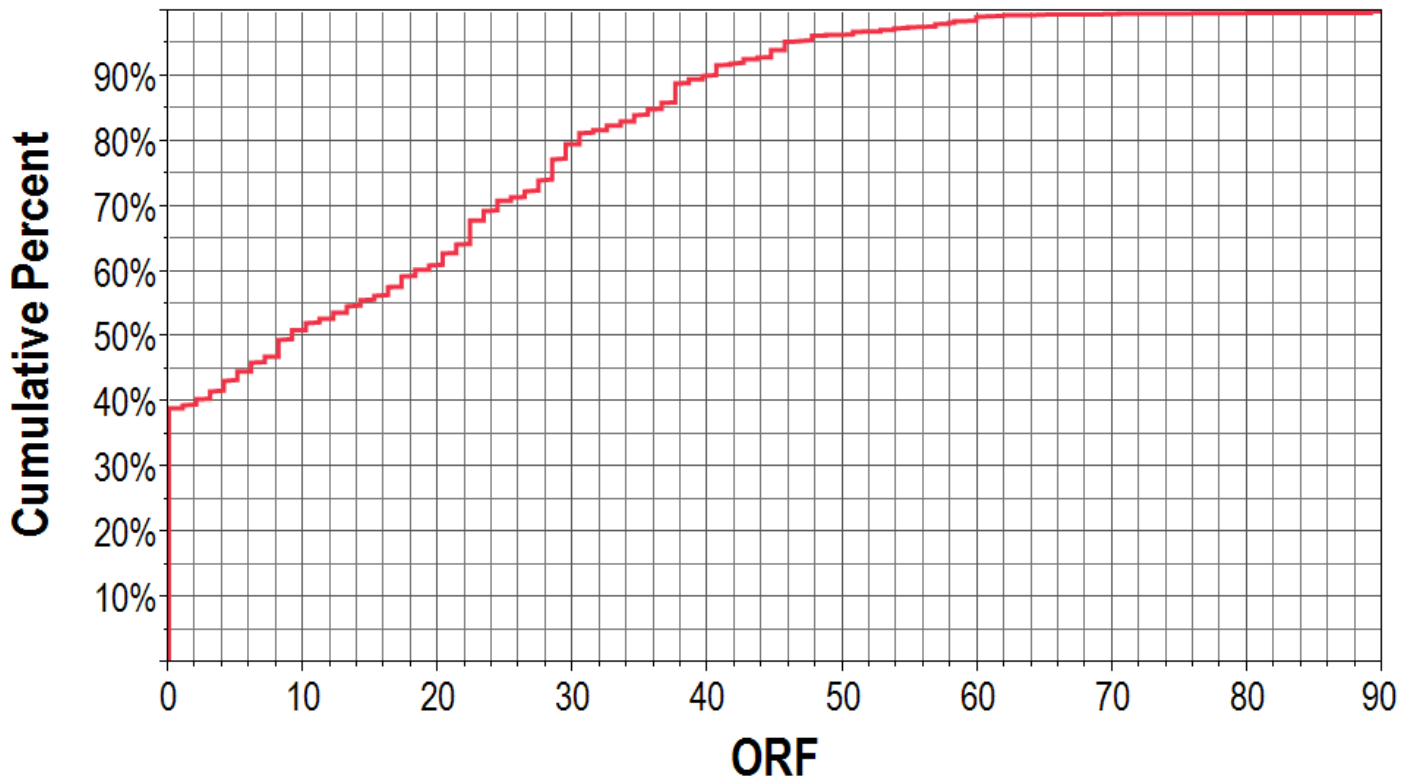


Table- ORF by Reading Comprehension:

# Correct	Standard 4			Count (achieving # correct)
	25th percentile	50th percentile (median)	75th percentile	
0	0	0	0	712
1	8	15	22	267
2	21	24	29	355
3	29	36	39	309
4	43	46	51	170
5	60	60	63	26

Case Study 1
 Malawi, Grade 4, Chichewa (2012)

Cumulative Percentiles by ORF:

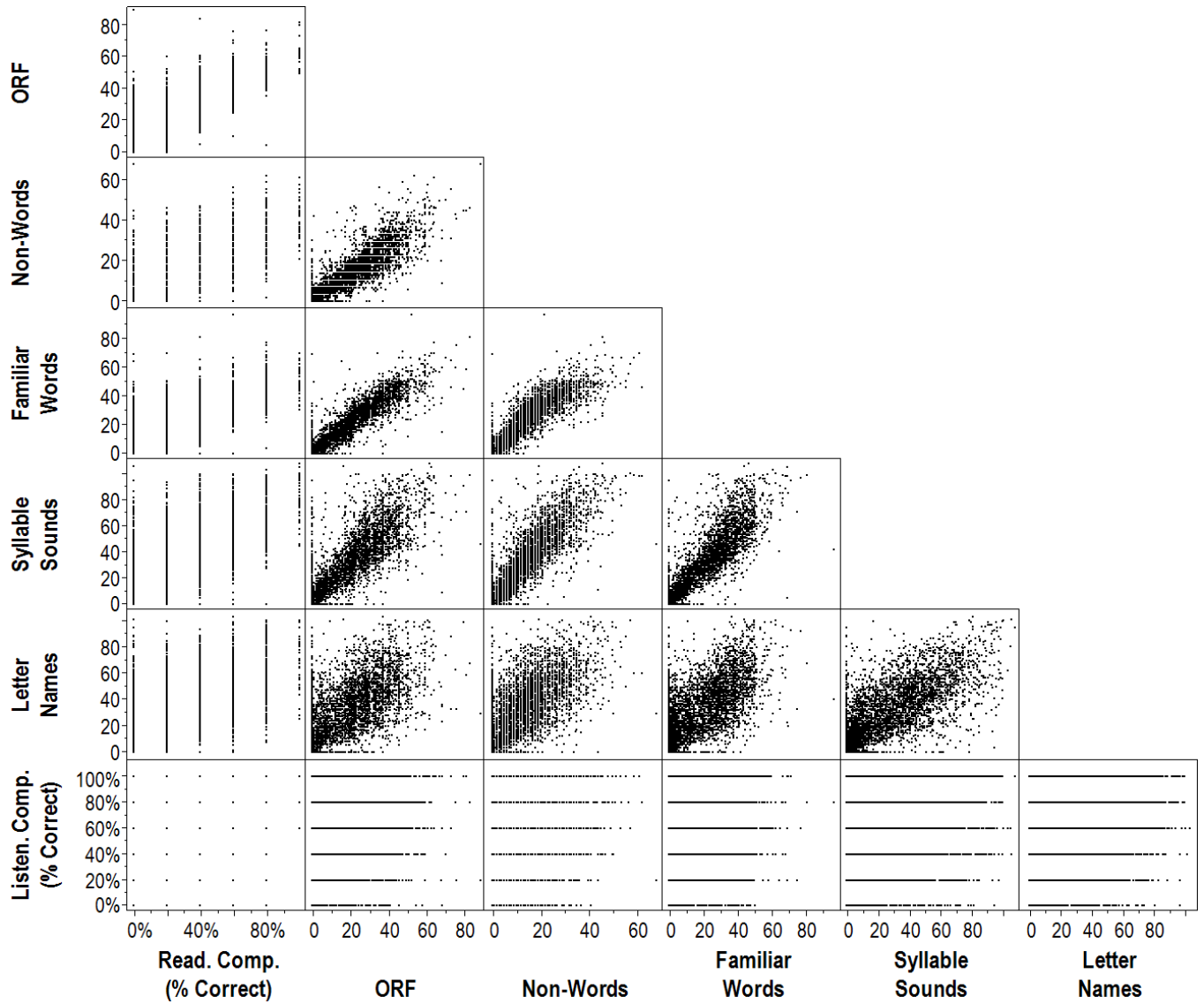


Correlations between Subtasks:

	Reading Comp. (% correct)	ORF	Non-Words	Familiar Words	Syllable Sounds	Letter Names	Listening Comp. (% Correct)
Reading Comp. (% correct)	1						
ORF	0.867	1					
Non-Words	0.805	0.908	1				
Familiar Words	0.833	0.948	0.941	1			
Syllable Sounds	0.815	0.906	0.915	0.926	1		
Letter Names	0.706	0.769	0.765	0.794	0.816	1	
Listening Comp. (% Correct)	0.321	0.313	0.311	0.317	0.321	0.360	1

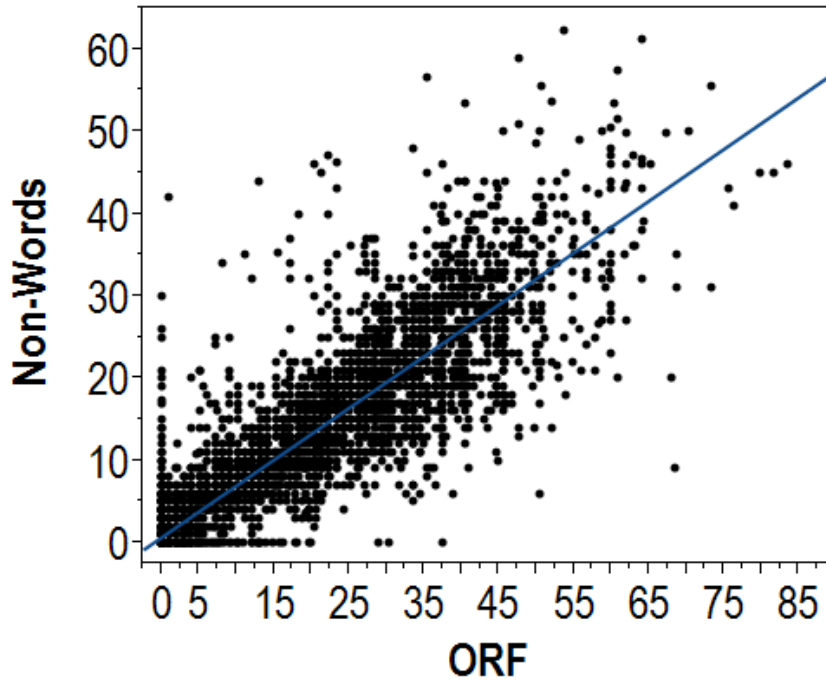
Case Study 1
 Malawi, Grade 4, Chichewa (2012)

Scatter Plot- Matrix of Subtasks:

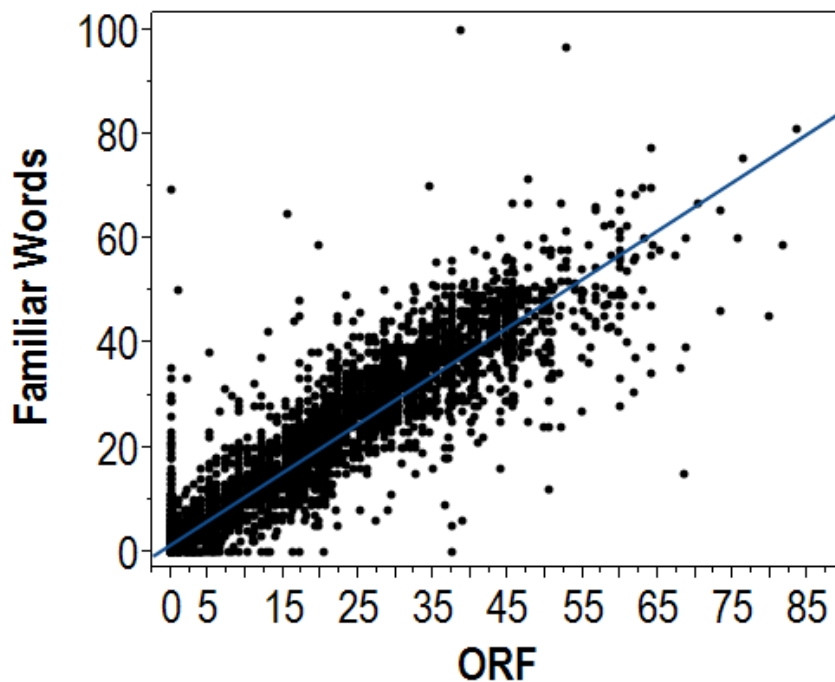


Case Study 1
Malawi, Grade 4, Chichewa (2012)

Scatter Plot- ORF vs. Non- Words:

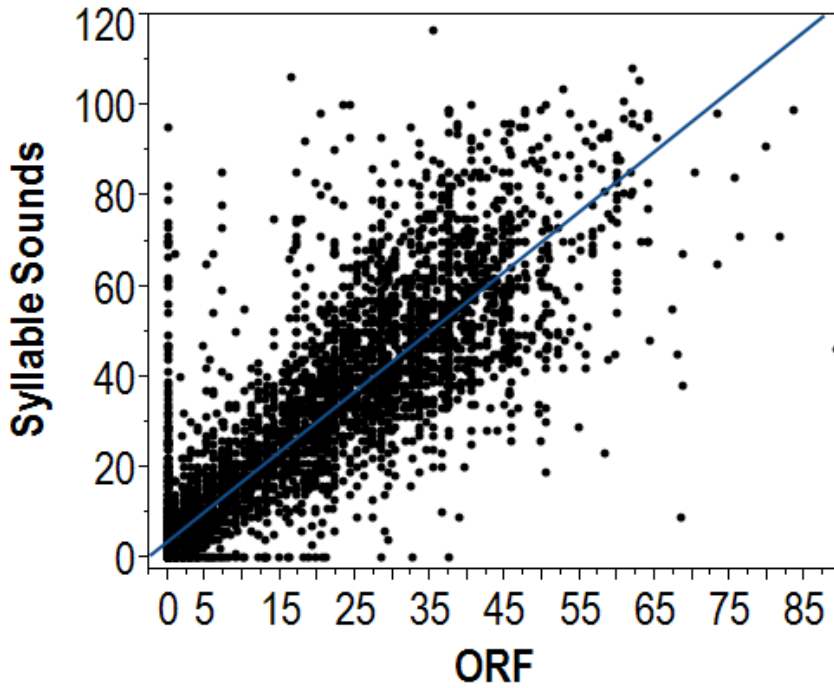


Scatter Plot- ORF vs. Familiar Words:

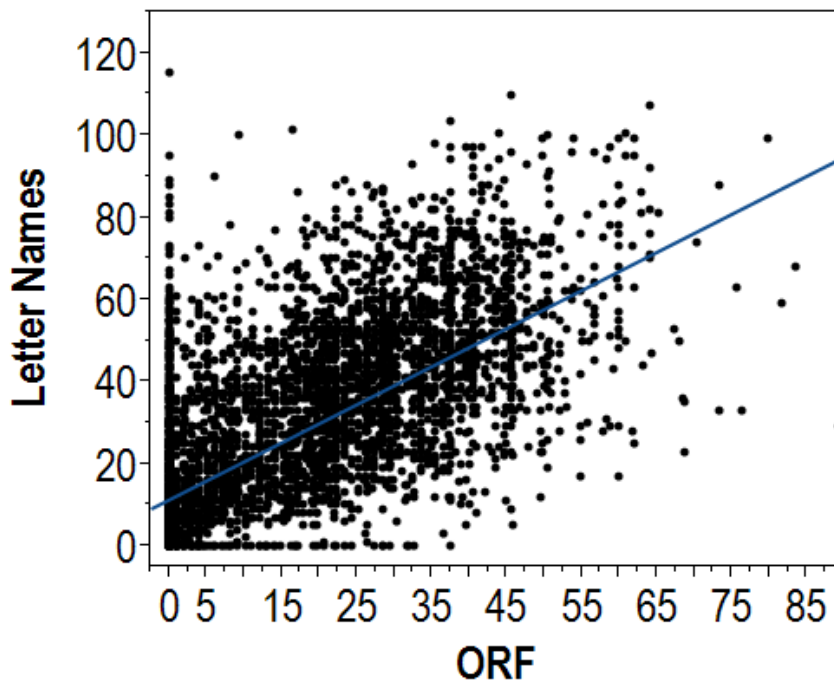


Case Study 1
Malawi, Grade 4, Chichewa (2012)

Scatter Plot- ORF vs. Letter Sounds:

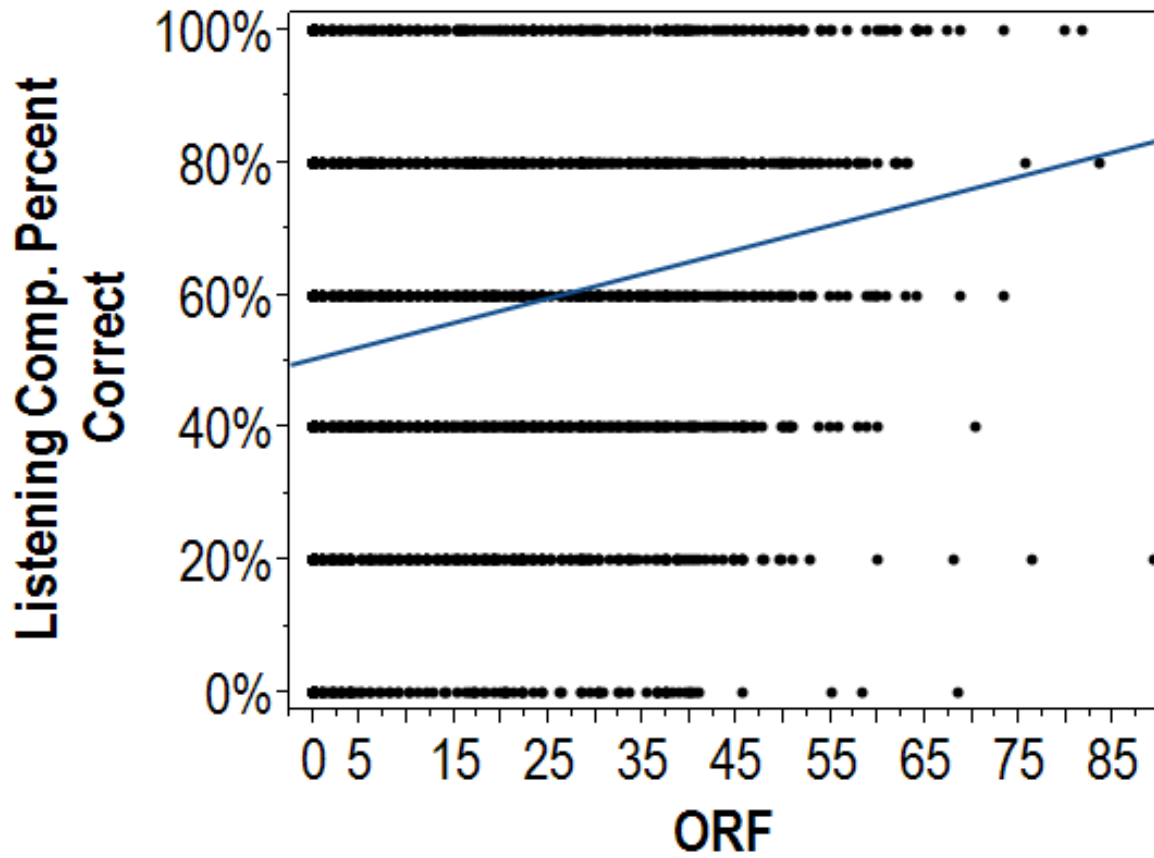


Scatter Plot- ORF vs. Letter Names:



Case Study 1
Malawi, Grade 4, Chichewa (2012)

Scatter Plot- ORF vs. Listening Comprehension:



Case Study 1
Malawi, Grade 4, Chichewa (2012)

ORF	Non-Words	Familiar Words	Syllable Sounds	Letter Names	Listening Comp.	# of pupils in sample
Zero	0.7	1.3	4.3	9.8	2.0	534
1<5	3.4	5.1	10.8	19.5	2.2	81
5<10	8.1	10.6	19.5	23.8	2.9	113
10<15	10.3	15.3	23.4	29.3	2.6	81
15<20	12.8	20.6	33.9	32.7	2.7	123
20<25	15.8	25.2	38.6	34.2	2.7	182
25<30	19.4	29.6	44.8	41.6	3.0	198
30<35	26.8	35.9	51.3	40.9	2.9	110

Case Study 1

Malawi, Grade 4, Chichewa (2012)

35<40	25.9	38.5	58.2	51.8	3.0	154
40<45	26.7	40.8	57.5	52.3	3.1	113
45<50	31.9	48.9	65.9	57.6	3.3	32
50<55	44.5	50.8	75.6	50.0	3.6	21
55<60	33.5	47.3	68.0	55.8	3.2	35
60<65	37.2	53.1	86.2	65.9	4.6	16
65<70	32.0	47.7	61.0	59.6	1.4	2
70<75	33.9	62.9	69.0	39.6	3.3	2
75<80	41.4	72.2	73.1	40.0	1.4	2
80<85	45.5	70.0	85.0	63.5	4.5	2
85<90	68.0	110.8	46.0	29.0	1.0	1

Average
Fluency
Scores-
Subtasks that
correspond to
given ranges
of ORF: